

Textile Machinery Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333292, Textile machinery manufacturing	2002..	397	411	8 086	305 657	4 935	10 031	146 500	568 268	422 340	1 000 447	59 665
	2001..	N	N	10 555	370 219	6 596	12 280	176 726	760 738	585 423	1 360 506	34 995
	2000..	N	N	12 409	437 542	7 896	15 222	208 707	1 052 631	728 305	1 809 255	63 152
	1999..	N	N	12 513	423 082	8 075	15 534	205 991	1 002 749	697 777	1 715 309	54 101
	1998..	N	N	12 813	441 680	7 824	15 538	223 160	1 058 716	719 308	1 785 475	54 913
	1997..	454	476	13 511	445 381	8 496	16 880	234 110	1 026 304	742 909	1 766 419	55 108

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333292, Textile machinery manufacturing												
United States	1	411	90	8 086	305 657	4 935	10 031	146 500	568 268	422 340	1 000 447	59 665
California	4	25	—	113	3 042	75	120	1 597	5 127	5 722	11 113	228
Georgia	1	46	9	738	27 733	481	923	13 461	55 083	47 712	102 525	4 225
Massachusetts	2	15	5	225	8 549	142	275	4 321	15 734	10 039	26 326	835
New Jersey	7	21	1	166	6 006	114	226	3 154	11 783	7 562	19 301	971
New York	2	18	3	295	12 189	179	382	6 011	20 355	13 401	35 341	1 828
North Carolina	1	83	25	1 733	62 475	1 081	2 169	30 938	115 142	87 594	208 032	36 596
Ohio	1	11	4	220	8 310	102	202	2 491	20 320	20 087	40 465	736
Pennsylvania	2	23	7	429	14 436	272	519	6 422	28 897	22 123	50 952	2 506
Rhode Island	—	8	1	117	5 009	52	113	1 613	8 764	7 155	16 588	600
South Carolina	1	47	17	1 837	68 289	1 168	2 367	36 260	121 992	69 280	193 376	5 722
Tennessee	1	10	3	271	13 424	169	362	6 648	16 160	24 869	40 592	1 032
Texas	1	10	1	126	5 020	73	167	2 427	10 861	7 717	18 592	719

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333292, Textile machinery manufacturing	
Companies ¹	number.. 397
All establishments ²	number.. 411
Establishments with 1 to 19 employees.....	number.. 321
Establishments with 20 to 99 employees.....	number.. 73
Establishments with 100 employees or more.....	number.. 17
All employees ³	number.. 8 086
Total compensation.....	\$1,000.. 361 745
Annual payroll.....	\$1,000.. 305 657
Total fringe benefits.....	\$1,000.. 56 088
Production workers, average for year.....	number.. 4 935
Production workers on March 12.....	number.. 4 894
Production workers on May 12.....	number.. 4 856
Production workers on August 12.....	number.. 4 954
Production workers on November 12.....	number.. 5 005
Production worker hours.....	1,000.. 10 031
Production worker wages.....	\$1,000.. 146 500
Total cost of materials.....	\$1,000.. 422 340
Materials, parts, containers, packaging, etc., used.....	\$1,000.. 334 587
Resales.....	\$1,000.. 67 987
Purchased fuels.....	\$1,000.. 2 445
Purchased electricity.....	\$1,000.. 8 562
Contract work.....	\$1,000.. 8 759
Quantity of electricity purchased for heat and power.....	1,000 kWh.. 140 466
Quantity of electricity generated less sold for heat and power.....	1,000 kWh.. D
Total value of shipments.....	\$1,000.. 1 000 447
Primary products value of shipments.....	\$1,000.. 811 208
Secondary products value of shipments.....	\$1,000.. 12 900
Total miscellaneous receipts.....	\$1,000.. 176 339
Value of resales.....	\$1,000.. 95 182
Contract receipts.....	\$1,000.. 21 106
Other miscellaneous receipts.....	\$1,000.. 60 051
Primary products specialization ratio.....	percent.. 98
Value of primary products shipments made in all industries.....	\$1,000.. 823 012
Value of primary products shipments made in this industry.....	\$1,000.. 811 208
Value of primary products shipments made in other industries.....	\$1,000.. 11 804
Coverage ratio.....	percent.. 99
Value added.....	\$1,000.. 568 268
Total inventories, beginning of year.....	\$1,000.. 271 679
Finished goods inventories.....	\$1,000.. 109 914
Work-in-process inventories.....	\$1,000.. 52 048
Materials and supplies inventories.....	\$1,000.. 109 717
Total inventories, end of year.....	\$1,000.. 249 211
Finished goods inventories.....	\$1,000.. 101 473
Work-in-process inventories.....	\$1,000.. 50 650
Materials and supplies inventories.....	\$1,000.. 97 088
Gross value of depreciable assets (acquisition costs) at beginning of year.....	\$1,000.. 417 539
Total capital expenditures (new and used).....	\$1,000.. 59 665
Buildings and other structures (new and used).....	\$1,000.. 2 958
Machinery and equipment (new and used).....	\$1,000.. 56 707
Automobiles, trucks, etc., for highway use.....	\$1,000.. 2 177
Computers and peripheral data processing equipment.....	\$1,000.. 4 977
All other expenditures for machinery and equipment.....	\$1,000.. 49 553
Total retirements.....	\$1,000.. 47 347
Gross value of depreciable assets at end of year.....	\$1,000.. 429 857
Depreciation charges during year.....	\$1,000.. 27 145
Total rental payments.....	\$1,000.. 19 306
Buildings and other structures.....	\$1,000.. 13 562
Machinery and equipment.....	\$1,000.. 5 744
Total other expenses ⁴	\$1,000.. 112 943
Response coverage ratio ⁵	percent.. 70
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 3 889
Communications services ⁴	\$1,000.. 4 402
Legal services ⁴	\$1,000.. 2 656
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 122
Advertising and promotional services ⁴	\$1,000.. 2 790
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 1 418
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 725
Management consulting and administrative services ⁴	\$1,000.. 1 477
Taxes and license fees ⁴	\$1,000.. 9 349
All other expenses ⁴	\$1,000.. 84 116

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333292, Textile machinery manufacturing											
All establishments	1	411	8 086	305 657	4 935	10 031	146 500	568 268	422 340	1 000 447	59 665
Establishments with—											
1 to 4 employees	8	195	384	12 987	257	435	6 587	21 946	17 888	40 110	1 711
5 to 9 employees	5	56	382	13 727	247	497	7 608	23 631	17 121	40 699	1 342
10 to 19 employees	2	70	965	34 073	621	1 182	17 497	57 894	45 400	105 622	5 111
20 to 49 employees	2	50	1 550	58 165	977	1 988	28 646	106 158	76 305	182 921	6 288
50 to 99 employees	1	23	1 578	56 568	1 027	2 147	28 735	102 845	99 491	204 242	6 986
100 to 249 employees	—	14	2 017	80 410	1 182	2 359	36 331	148 117	107 584	263 288	37 352
250 to 499 employees	—	3	1 210	49 727	624	1 423	21 096	107 677	58 551	163 565	875
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	192	458	15 621	309	536	7 930	25 237	21 036	46 061	2 017

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333292	Textile machinery manufacturing	411	8 086	305 657	4 935	10 031	146 500	568 268	422 340	1 000 447	59 665
3332921	Textile machinery (except parts, attachments, and accessories)	114	4 659	187 188	2 677	5 434	84 042	344 851	281 166	630 787	18 214
3332923	Parts and attachments for textile machinery	68	2 329	79 951	1 579	3 328	43 138	159 561	103 471	267 624	38 339

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333292	Textile machinery manufacturing	2002.. N 1997.. N	X X	X X	823 012 1 480 767
3332921	Textile machinery (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	503 491 877 516
33329211	Fiber to fabric textile machinery (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	198 200 424 629
3332921101	Cleaning and opening fiber-to-fabric textile machinery, including picker, garnetting, and other (except parts, attachments, and accessories)	2002.. 3 1997.. 12	X X	X X	3 008 25 400
3332921103	Carding and combing fiber-to-fabric textile machinery (except parts, attachments, and accessories)	2002.. 3 1997.. 4	X X	X X	9 789 4 561
3332921106	Other fiber-to-fabrics textile machinery, including machines for drawing, roving, and twisting frames (except parts, attachments, and accessories)	2002.. 6 1997.. 8	X X	X X	D 40 720
3332921111	Fiber-to-fabric yarn winding machinery (skein, spool, bobbin, quill, cone, etc.) (except parts, attachments, and accessories)	2002.. 11 1997.. 11	X X	X X	22 914 70 201
3332921116	Other fiber-to-fabric yarn preparing machinery (beaming, warping, warp tying, warp drawing in, slashing, etc.) (except parts, attachments, and accessories)	2002.. 11 1997.. 8	X X	X X	24 593 29 775
3332921121	Machinery for extruding, drawing, texturing, and cutting manmade textile materials (except parts, attachments, and accessories)	2002.. 18 1997.. 16	X X	X X	103 690 176 048
3332921131	Fabric weaving machinery, power-driven, including machinery for broad and narrow fabrics (shuttle and shuttleless) (except parts, attachments, and accessories)	2002.. 2 1997.. 7	X X	X X	D 15 054
3332921136	Fabric knitting machinery (except parts, attachments, and accessories)	2002.. 4 1997.. 7	X X	X X	21 957 62 870
33329212	Other textile machinery, including hand looms, lace, embroidery, braiding, and tufting machinery (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	87 851 84 345
3332921241	Hand looms machinery (except parts, attachments, and accessories)	2002.. 3 1997.. 4	X X	X X	4 218 2 861
3332921246	Other fabrics machinery, including lace, embroidery, braiding, and tufting machinery (except parts, attachments, and accessories)	2002.. 17 1997.. 15	X X	X X	83 633 81 484
33329213	Textile bleaching, mercerizing, and dyeing machinery (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	30 253 82 031
3332921358	Textile bleaching, mercerizing, and dyeing machinery (except parts, attachments, and accessories)	2002.. 6 1997.. N	X X	X X	30 253 N
33329214	Textile printing machinery (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	71 046 72 440
3332921461	Industrial textile laser printing systems and equipment (except parts, attachments, and accessories)	2002.. 1 1997.. N	X X	X X	D -
3332921462	Textile printing machinery (except parts, attachments, and accessories)	2002.. 8 1997.. 11	X X	X X	65 360 55 502
3332921476	Textile machinery for drying stocks, yarns, cloth, carpet, nonwoven, etc. (except parts, attachments, and accessories)	2002.. 6 1997.. 5	X X	X X	D 16 938
33329215	Textile finishing machinery, including calendering or rolling (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	31 230 89 752
3332921566	Finishing machinery, calendering or rolling machines (except parts, attachments, and accessories)	2002.. 3 1997.. 12	X X	X X	3 271 23 075
3332921571	Other finishing machinery (except parts, attachments, and accessories)	2002.. 11 1997.. 15	X X	X X	27 959 66 677
33329216	Other textile industry machinery (except parts, attachments, and accessories)	2002.. N 1997.. N	X X	X X	56 767 97 165
3332921681	Machinery for the finishing of felt and nonwovens in the piece or in shapes (except parts, attachments, and accessories)	2002.. 2 1997.. 5	X X	X X	D 9 875
3332921686	Textile rope and cablemaking machinery (except parts, attachments, and accessories)	2002.. 4 1997.. -	X X	X X	D 26
3332921691	Other textile industry machinery (except parts, attachments, and accessories)	2002.. 24 1997.. 44	X X	X X	49 753 87 264
3332921Y	Textile machinery (except parts, attachments, and accessories), nsk	2002.. N 1997.. N	X X	X X	28 144 27 154
3332921YVV	Textile machinery (except parts, attachments, and accessories), nsk	2002.. N 1997.. N	X X	X X	28 144 27 154
3332923	Parts and attachments for textile machinery	2002.. N 1997.. N	X X	X X	285 143 499 625

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333292	Textile machinery manufacturing—Con.				
3332923	Parts and attachments for textile machinery—Con.				
33329231	Textile machinery turnings and shapes, including bobbins, shuttles, spools, picker sticks, caps, etc.	2002.. N	X	X	10 115
		1997.. N	X	X	12 391
3332923101	Textile machinery turnings and shapes, shuttles	2002.. 5	X	X	2 199
		1997.. 3	X	X	D
3332923106	Other textile machinery turnings and shapes, of plastics	2002.. 2	X	X	437
		1997.. 1	X	X	D
3332923111	Other textile machinery turnings and shapes, except plastics	2002.. 12	X	X	7 479
		1997.. 4	X	X	5 418
33329232	Parts and attachments for fiber-to-fabric card clothing machinery	2002.. N	X	X	D
		1997.. N	X	X	32 368
3332923216	Parts and attachments for fiber-to-fabric card clothing machinery	2002.. 2	X	X	D
		1997.. 8	X	X	32 368
33329233	Parts and attachments for other fiber-to-fabric machinery, except card clothing	2002.. N	X	X	46 451
		1997.. N	X	X	87 703
3332923321	Parts and attachments for fiber-to fabric machinery (dobbies and jacquards), including card reducing, copy, punching, and assembling machines	2002.. 1	X	X	240
		1997.. —	X	X	D
3332923331	Parts and attachments for fiber-to-fabric machinery, extruding, drawing, texturing and cutting manmade fibers (including auxiliary machines)	2002.. 6	X	X	22 908
		1997.. 10	X	X	23 967
3332923336	Parts and attachments for fiber-to-fabric machinery, preparing textile fibers (including auxiliary machines)	2002.. 3	X	X	3 534
		1997.. 5	X	X	24 779
3332923341	Parts and attachments for fiber-to-fabric machinery, spindles, spindle flyers, spinning rings, and ring travelers	2002.. 1	X	X	225
		1997.. 2	X	X	730
3332923346	Other parts and attachments for fiber-to-fabric machinery (including auxiliary machines)	2002.. 9	X	X	19 544
		1997.. 13	X	X	D
33329234	Parts and attachments for weaving machinery	2002.. N	X	X	73 968
		1997.. N	X	X	96 056
3332923451	Parts and attachments for weaving machinery, reeds for looms, healds and heald-frames	2002.. 7	X	X	61 022
		1997.. 7	X	X	31 376
3332923456	Other parts and attachments for weaving machines, including broad and narrow fabrics (including auxiliary machines)	2002.. 5	X	X	12 946
		1997.. 12	X	X	64 680
33329235	Parts and attachments for knitting machinery	2002.. N	X	X	D
		1997.. N	X	X	35 781
3332923561	Parts and attachments for knitting machinery, sinkers, and other articles used for forming stitches (exclude needles)	2002.. 1	X	X	D
		1997.. 3	X	X	D
3332923566	Other parts and attachments for knitting machinery	2002.. 4	X	X	2 721
		1997.. 10	X	X	D
33329236	Parts and attachments for finishing machinery	2002.. N	X	X	40 415
		1997.. N	X	X	46 807
3332923671	Parts and attachments for finishing machinery, calendering and rolling machines (including cylinders)	2002.. 4	X	X	3 539
		1997.. 5	X	X	6 477
3332923681	Other parts and attachments for finishing machines	2002.. 15	X	X	36 876
		1997.. 25	X	X	40 330
33329237	Other parts and attachments for textile machinery (including printing)	2002.. N	X	X	90 943
		1997.. N	X	X	174 745
3332923791	Other parts and attachments for textile machinery (including printing)	2002.. 34	X	X	90 943
		1997.. 55	X	X	174 745
3332923Y	Parts and attachments for textile machinery, nsk	2002.. N	X	X	6 089
		1997.. N	X	X	13 774
3332923YVV	Parts and attachments for textile machinery, nsk	2002.. N	X	X	6 089
		1997.. N	X	X	13 774
333292W	Textile machinery manufacturing, nsk, total	2002.. N	X	X	34 378
		1997.. N	X	X	103 626
333292WY	Textile machinery manufacturing, nsk, total	2002.. N	X	X	34 378
		1997.. N	X	X	103 626
333292WYWW	Textile machinery manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	3 935
		1997.. N	X	X	51 347
333292WYWY	Textile machinery manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	30 443
		1997.. N	X	X	52 279

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3332921	Textile machinery (except parts, attachments, and accessories)	
	United States	2002 .. 503 491
		1997 .. 877 516
	California	2002 .. 8 029
		1997 .. 6 401
	Georgia	2002 .. 33 961
		1997 .. 62 770
	Massachusetts	2002 .. 14 286
		1997 .. 38 433
	New Jersey	2002 .. 7 890
		1997 .. 20 061
	New York	2002 .. 24 672
		1997 .. 46 329
	North Carolina	2002 .. 78 584
		1997 .. 198 687
	Pennsylvania	2002 .. 15 991
		1997 .. 18 709
	South Carolina	2002 .. 54 851
		1997 .. 150 278
	Tennessee	2002 .. 29 583
		1997 .. 30 164
3332923	Parts and attachments for textile machinery	
	United States	2002 .. 285 143
		1997 .. 499 625
	Georgia	2002 .. 53 846
		1997 .. 29 190
	Massachusetts	2002 .. 6 071
		1997 .. 12 320
	New Jersey	2002 .. 6 703
		1997 .. 7 505
	New York	2002 .. 8 659
		1997 .. 19 103
	North Carolina	2002 .. 68 754
		1997 .. 161 735
	Ohio	2002 .. 6 784
		1997 .. N
	Pennsylvania	2002 .. 10 643
		1997 .. 13 891
	South Carolina	2002 .. 89 148
		1997 .. 177 453

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333292	Textile machinery manufacturing		
00900001	Total materials .....2002..	X	334 587
	.....1997..	X	597 936
00190090	Fluid power products .....2002..	X	10 437
	.....1997..	X	22 143
33200057	Fabricated metal products (excluding forgings) .....2002..	X	20 891
	.....1997..	X	54 948
33210000	Forgings .....2002..	X	3 419
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	7 390
	.....1997..	X	31 556
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	3 991
	.....1997..	X	8 496
33152003	Other nonferrous metalcastings, rough and semifinished (excluding aluminum and aluminum-base alloy) .....2002..	X	2 075
	.....1997..	X	3 123
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 971
	.....1997..	X	35 106
33120016	Steel sheet and strip (including tinplate) .....2002..	X	3 080
	.....1997..	X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	2 862
33120025	Steel wire and wire products .....2002..	X	12 016
	.....1997..	X	27 666
33120087	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 907
	.....1997..	X	4 143
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 856
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	1 187
	.....1997..	X	10 008
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	D
	.....1997..	X	18 050
33299105	Ball bearings (mounted or unmounted) .....2002..	X	3 778
	.....1997..	X	7 174
33299103	Roller bearings (mounted or unmounted) .....2002..	X	1 667
	.....1997..	X	3 041
33360000	Speed reducers, gears, drives, and other mechanical power transmission equipment (excluding bearings) .....2002..	X	4 170
	.....1997..	X	16 519
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	5 105
	.....1997..	X	8 535
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	23 608
	.....1997..	X	44 668
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	59 724
	.....1997..	X	183 545
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	148 618
	.....1997..	X	116 353

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.